NJDOT Bureau of Research **QUARTERLY PROGRESS REPORT**

Project Title:	Tower Street Lighting					
RFP NUMBER: 7192678		NJDOT RESEARCH PROJECT MANAGER: Stefanie Potapa				
TASK ORDER NUMBER: 13		PRINCIPAL INVESTIGATOR: Josh DeFlorio				
Project Starting Date: 1/26/2010 Project Ending Date: 7/25/2010		Period Starting Date: 1/1/2010 Period Ending Date: 3/31/2010				

Task	% of	Total	% of	Cost This	% of	Total Cost
	Total	Budget	Task	Quarter	Task to	to Date
	Project		This		Date	
	Budget		Quarter			
1. Kick Off Meeting	9%	\$4,056	100%	\$4,056	100%	\$4,056
2. Literature Review	13%	\$5,858	92%	\$5,389	92%	\$5,389
3. Choose Alternative	6%	\$2,704	51%	\$1,379	51%	\$1,379
Application Sites						
4. Choose lighting	7%	\$3,154	0%	\$0	0%	\$0
Systems						
5. Analyze Base Case	11%	\$4,957	0%	\$0	0%	\$0
Lighting Systems						
6. Create Test Case	14%	\$6,309	0%	\$0	0%	\$0
Lighting Systems						
7. Conduct	22%	\$9,914	0%	\$0	0%	\$0
Performance						
Comparisons for all						
Cost and Safety						
Factors						
8. Final Report	18%	\$8,111	0%	\$0	0%	\$0
TOTAL	100%	\$45,062		\$10,824		\$10,824

Project Objectives:

The objectives of this project are to:

Provide technical staff with a framework for understanding the potential benefits and constraints associated with utilizing high mast lighting in place of conventional lighting systems in appropriate contexts.

Project Abstract:

This study will explore the potential benefits of replacing conventional highway lighting systems with high mast systems. Factors subject to comparative evaluation include 1) the ease and cost of maintenance, including expected man hours 2) the safety of maintenance personnel, 3) cost/benefit analysis, including capital costs, maintenance costs, energy costs,

and anticipated system life, 4) impacts on the safety of the motoring public, and 5) impacts on the environment and aesthetics.

1. Progress this quarter by task:

Task 1:

- Held kick off meeting at NJDOT Regional HQ (included sub consultant);
- Compiled and distributed meeting summary, with deliverables for each participant

Task 2:

• Commenced literature review and state DOT interviews; Submitted draft technical memorandum, summarizing results (anticipated 3/31).

Task 3:

- Discussed site selections with NJDOT over phone and during kick-off;
- Initiated request for plans from NJDOT;
- Began digitizing plans for Visual.

Tasks 4-8:

• No activity this quarter.

2. Proposed activities for next quarter by task

Task 1:

• Completed.

Task 2:

• Incorporate client comments into draft technical memorandum, as necessary.

Task 3:

• Obtain and digitize all site plans.

Task 4:

• Select a specific high mast system as a test case.

Task 5:

• Establish the costs and safety characteristics of the existing conventional system.

Task 6:

• Develop one high mast lighting conceptual design for each selected scenario to ensure that minimum functional requirements are achieved.

Task 7:

• Conduct comparative analyses of the high mast conceptual design and the actual conventional lighting system for each application site.

Task 8:

• Complete and submit final report, incorporate changes as necessary.

3. List of deliverables provided in this quarter by task (product date)

- Kick off meeting (2/16/10);
- Draft Technical Memorandum: Literature Review and Interviews (3/31/10, anticipated).

4. Progress on Implementation and Training Activities:

• No work on implementation or training in this period

5. Problems/Proposed Solutions:

• No problems identified for this period

Total Project Budget	\$45,062.46
Contract Amount:	\$45,062.46
Total Project Expenditure to date	\$11,077.62
% of Total Project Budget Expended	25%